

MAG Bicycles Count Project

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Acceptance of Final Report

- Overview of MAG Bicycles Count final report for formal committee acceptance
- Next steps: acceptance by TRC, Management Committee, and Regional Council

Project Need

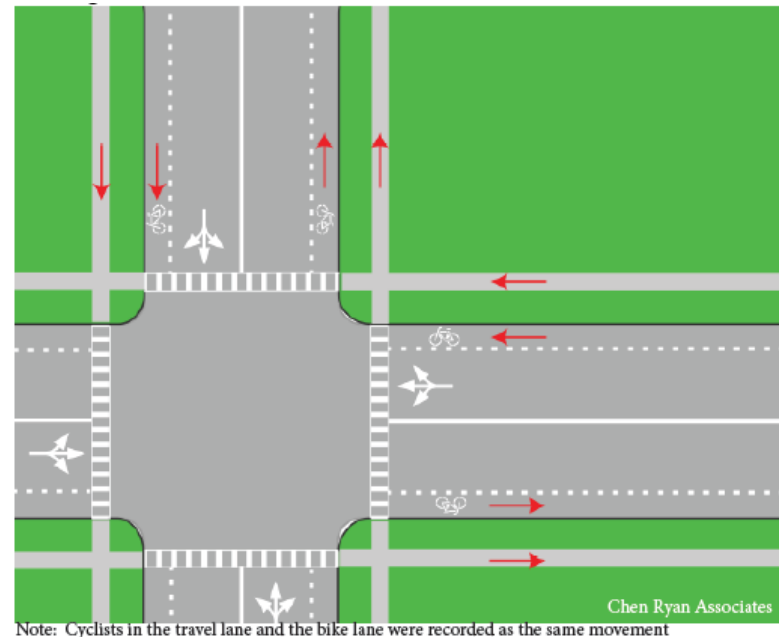
- Why count bikes?
 - Lack of existing data on bicycling
 - More data analysis for grant applications
 - Need for data to evaluate air quality benefits

Project Background

- 18-month study with ChenRyan Associates
 - February 2013-July 2014
 - Determine ideal methodology and comprehensive network of count stations
 - Perform data collection
 - Analyze data
 - Lay foundation for future data collection

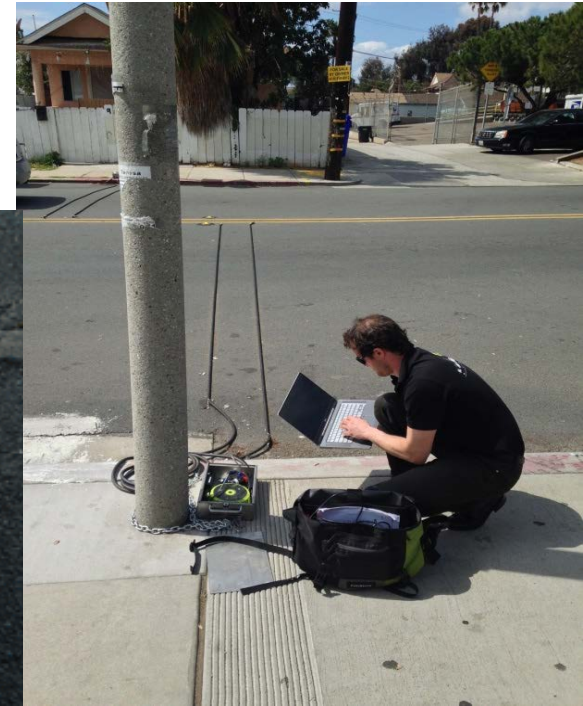
Manual Counts

- 84 locations (56 weekday, 28 weekend)
- Counts were done over 2-hour peak period
 - Noted whether cyclist is on sidewalk or in street
 - Noted wrong-way riding

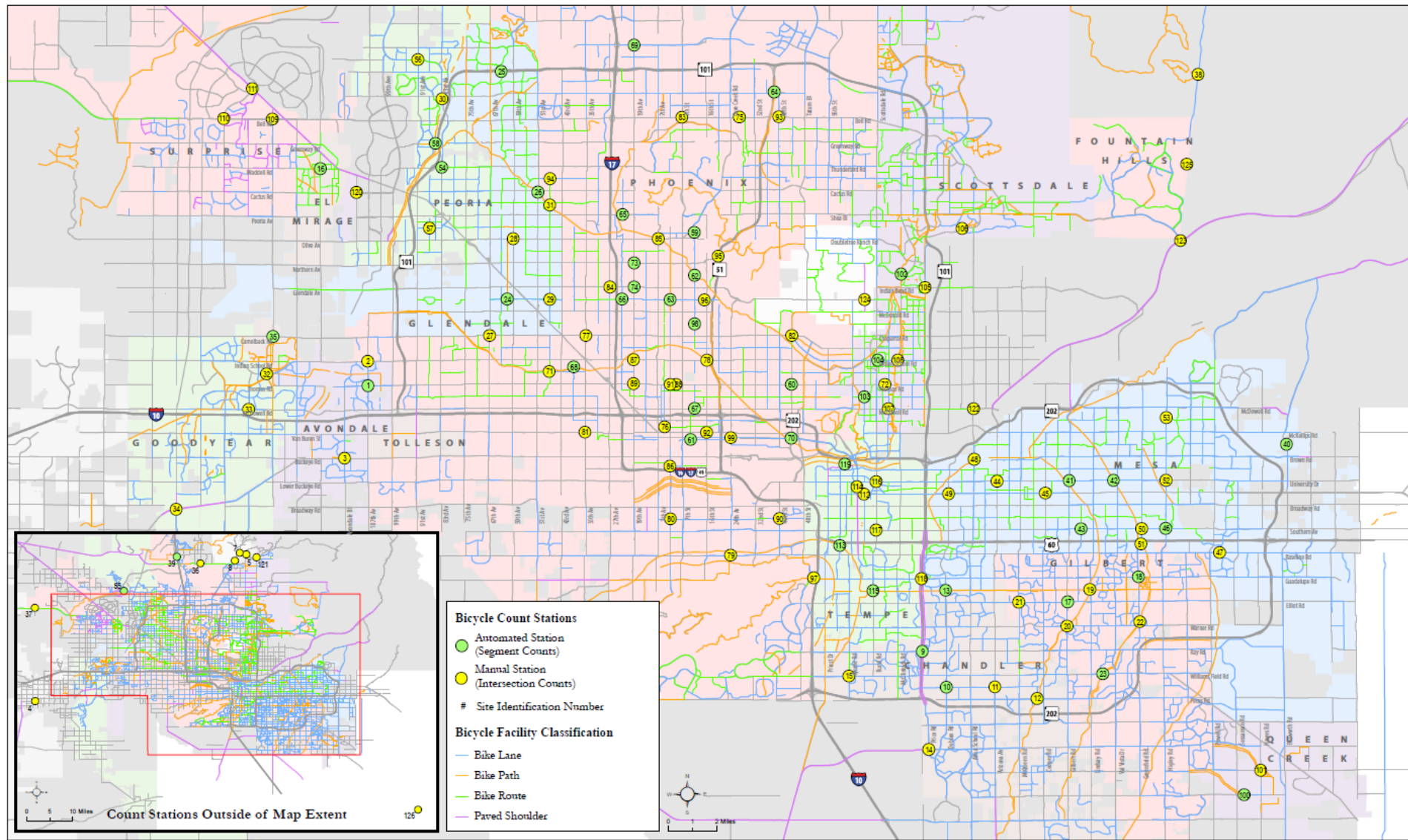


Automated Counts

- 44 locations
- 24-hour continuous counts over two week periods (October-November 2014)
 - Pneumatic Tubes laid in street, bike lane, or path



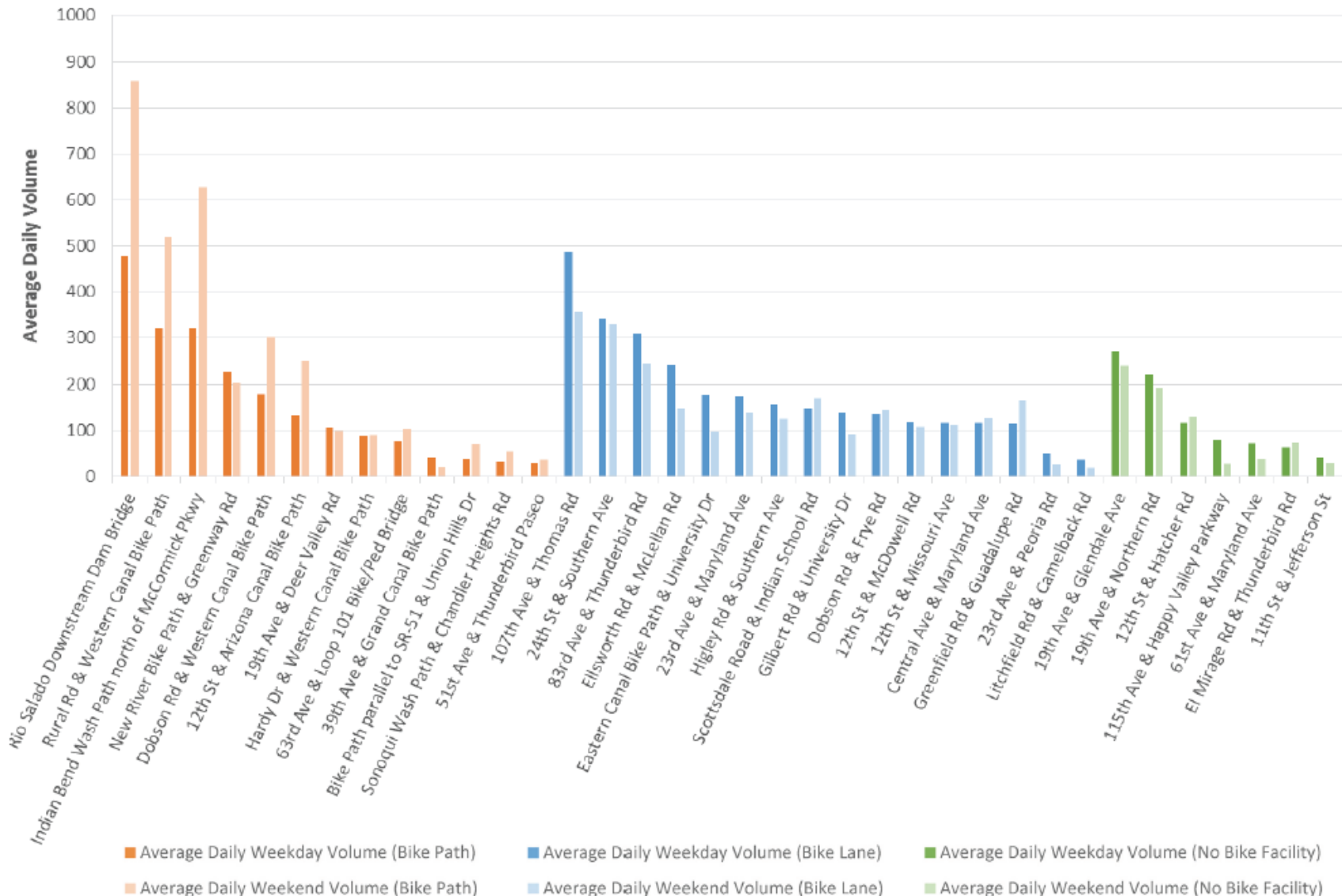
Study Sites



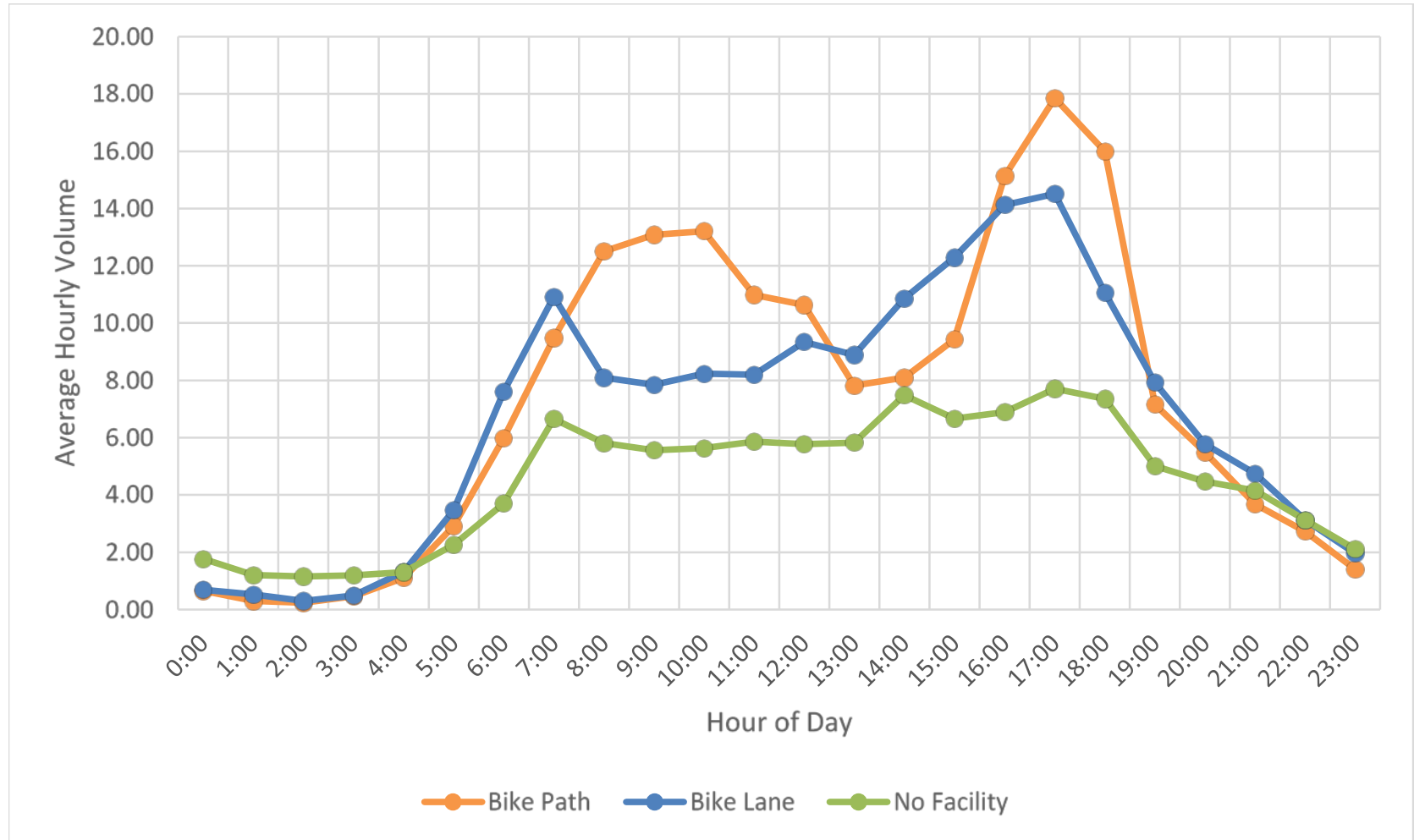
Findings

- Generally, bike paths experienced greater average hourly volumes during weekdays and weekends than bike lanes or roadways without bikeways.
- Between 30% and 94% of cyclists in MAG region ride on the sidewalk
 - Varied based on presence or lack of bikeway, number of lanes, and presence or lack of right-turn lane

Average Daily Bicycle Volumes

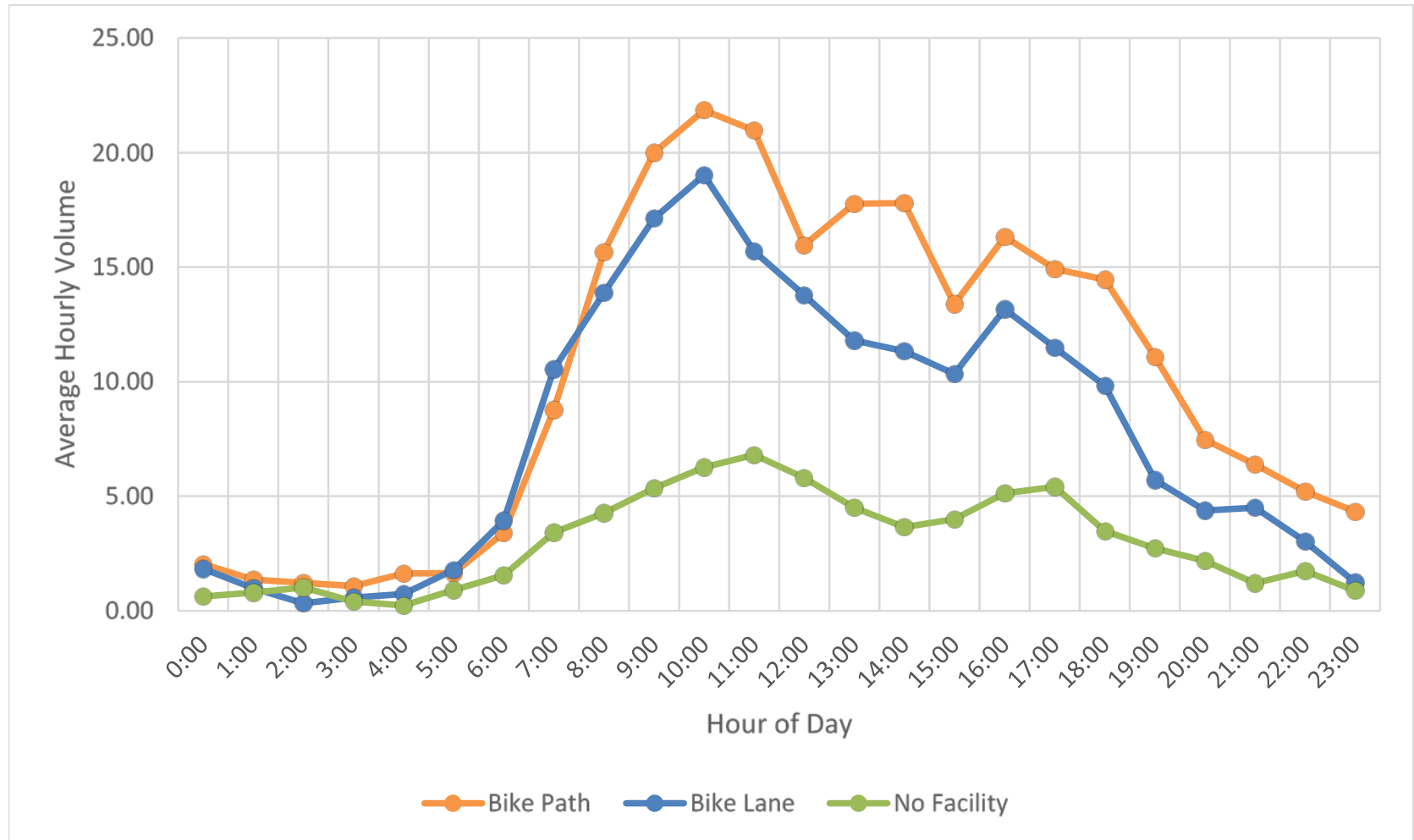


Average Hourly Weekday Volumes



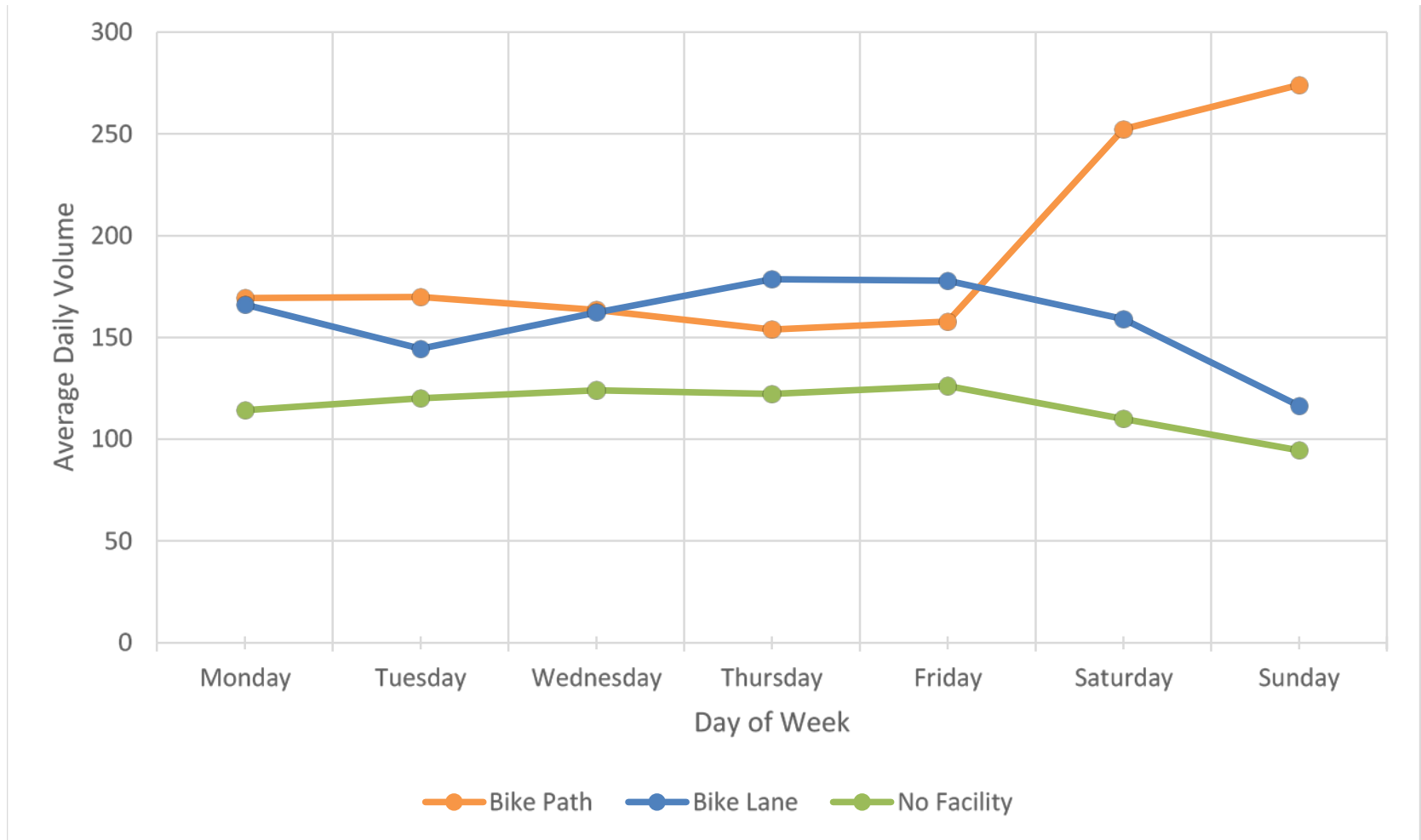
MAG Region, average of 37 automated count stations, October-November 2014

Average Hourly Weekend Volumes



MAG Region, average of 37 automated count stations, October-November 2014

Average Daily Bicycle Volumes



Data Uses

- Data can help us evaluate:
 - Bicycling trends in the region over time
 - Variation in volumes by bikeway type
 - Levels of sidewalk and wrong-way riding
 - Cycling-related emissions reductions and health benefits

Data Uses

- The data can be used:
 - To enhance transportation safety studies and transportation planning process
 - To perform before-and-after studies when new bikeways are built
 - In the evaluation of project applications

Future Data Collection

- Continue automated counts for 2014 and 2015
 - At the same 44 locations counted in 2013
 - Then assess whether region-wide automated counts should be conducted annually or bi-annually
- Work with MAG member agencies to continue manual counts as a supplement to automated counts
 - Example: T.B.A.G. volunteers conduct annual manual counts in City of Tempe

Future Data Collection

- Loan automated counters (owned by MAG) to member agencies
- Encourage MAG member agencies to install permanent bike counters
 - Example: Consolidated Canal in City of Mesa

Action Requested

- Recommend acceptance of MAG Bicycles Count project final report.



MAG Bicycles Count Phase II

- Two handouts included in agenda packet
 - Map of automated count stations by phase
 - List of automated count stations by phase
- Half of sites in Fall 2014, half in Spring 2015
- Counts will tentatively start September 29, 2014

MAG Bicycles Count Phase II

